Naninia

SWAN HUNTER & WIGHAM
RICHARDSON LTD.

12

SHIP No. 1677 'NANINIA' ex
'EMPIRE MACMAHON'

NEWCASTLE ON TYNE.

Report No. 101795 ~~[illegible]~~

Profile & Decks.

RECORDS DEPT.
LONDON

3

003349-003356-0220

© 2020
Lloyd's Register
Foundation

72
6 MAR 1943

# No 1677 M.A.C Tanker

## Profile & Decks

Dimensions 460'-0" L.B.P. x 59'-0" B. Mld x 34'-0" D. Mld to upper Deck

Scale :- 1/8" = 1 Foot.

| Equipment Numeral (Revised) | | |
|---|---|---|
| Second Numeral | | 42780 |
| Poop | 94.5 x 7.5 x .75 | 531 |
| Bridge | 92 x 7.5 x .75 | 518 |
| F'cle | 48 x 7.5 x .75 | 270 |
| Poop Deckhouse | 76 x 14.5 x .5 | 550 |
| Bridge | 106.7 x 8.0 x .5 | 427 |
| upper " | 100.7 x 9 x .5 | 480 |
| | Total = | 45556 |

Number not Exceeding 46,000
See letter

48'6
14'10½
63 4½

44' 7½
18' 9½
63 4½

SWAN, HUNTER, & WIGHAM RICHARDSON Ltd.
SHIPBUILDERS & ENGINEERS
DATE 5 - 2 - 43
No 142
WALLSEND SHIPYARD
WALLSEND-ON-TYNE

ISSUE No 150
3-3-43

6. 3. 43

**SWAN HUNTER & WIGHAM RICHARDSON LTD.**

15

SHIP No. 16777.

Midship Section (as built)

EMPIRE. MACMAHON.
NEWCASTLE ON TYNE.
Report No. 101795

"NANINIA" ★

~~[illegible]~~

RECORDS DEPT.
LONDON

2

003349-003356-0219

# EMPIRE MACMAHON.

## MIDSHIP SECTION.

SCALE:- ½ INCH = 1 FOOT.

LENGTH B.P. ---------- 460'-0".
BREADTH MLD. ---------- 59'-0".
DEPTH MLD. TO UPPER DECK ---------- 34'-0".

CLASS LLOYDS 100 A.1 ✱ "CARRYING OIL FUEL IN BULK. F.P. ABOVE 150° F
SPECIAL NOTATION:- "LONGITUDINAL FRAMING ON BOTTOM & AT DECK."

NUMERALS

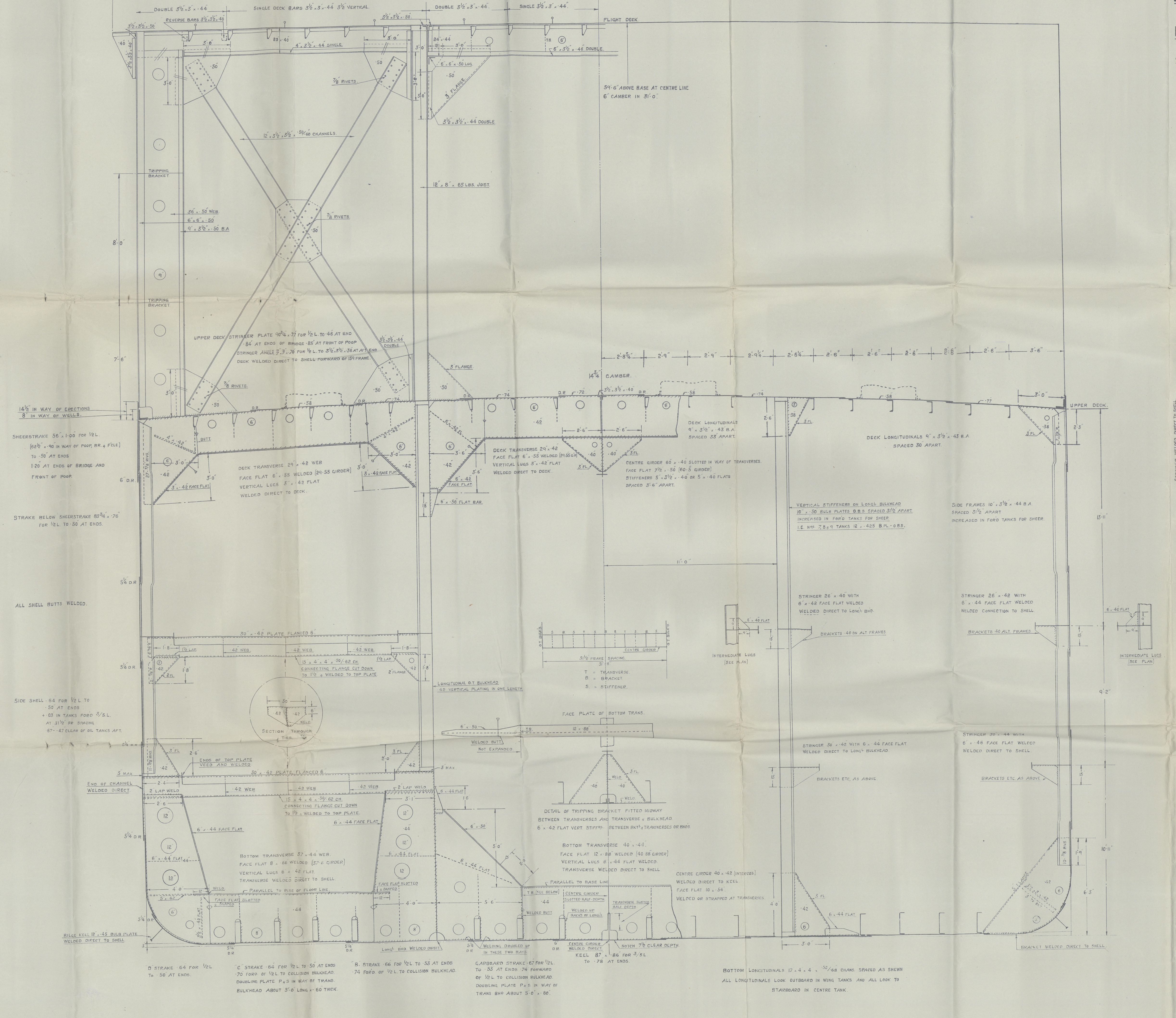
L = 460' B = 59' D = 34'.
L × D. = 460' × 34' = 15640
L × (B & D.) = 460' (59' + 34') = 42780
L/D. = 460' ÷ 34' = 13·52.

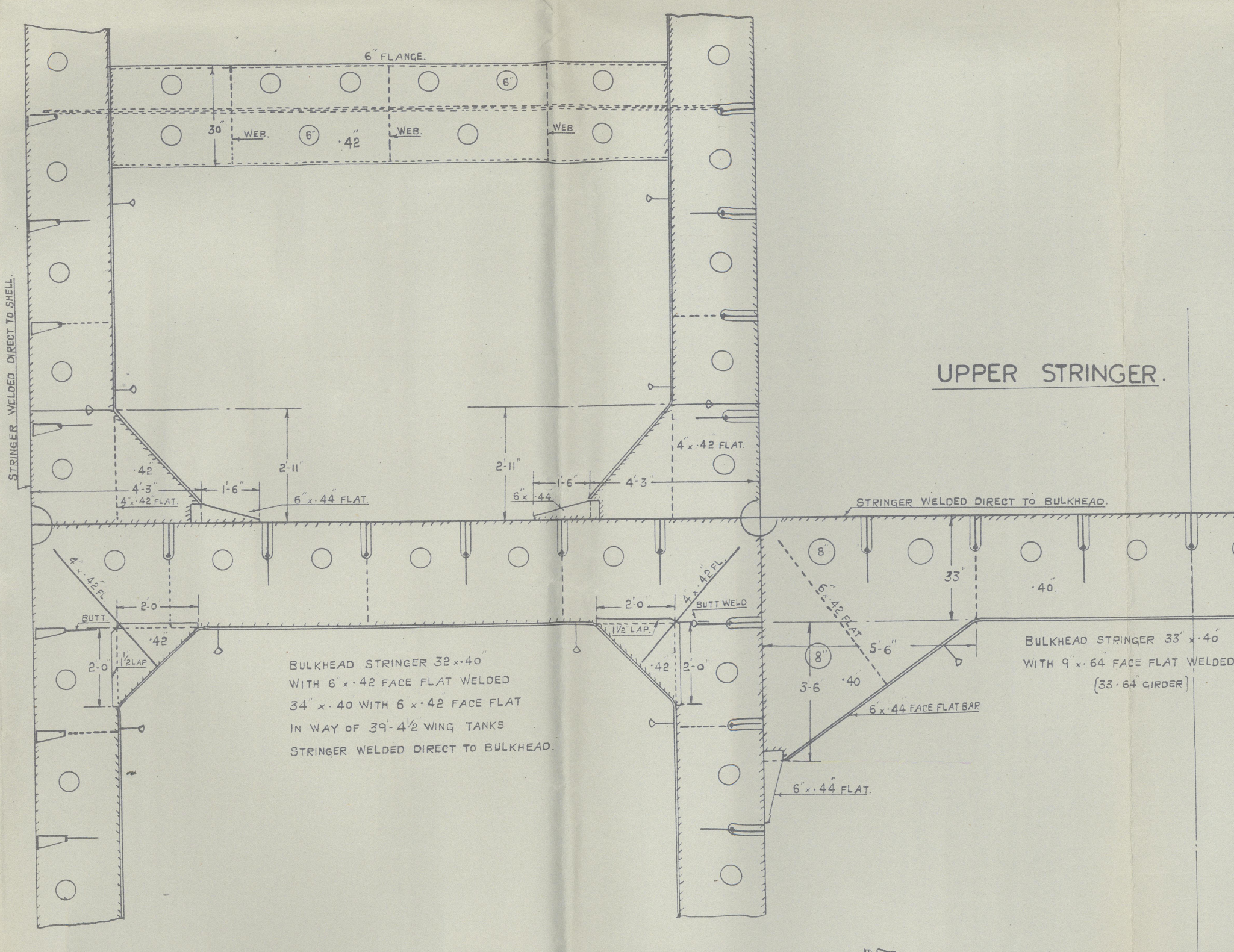
EQUIPMENT NUMBER:-

| | | | |
|---|---|---|---|
| SECOND NUMERAL | | = | 42780 |
| POOP | 94·5 × 7·5 × ·75 | = | 531 |
| BRIDGE | 92 × 7·5 × ·75 | = | 518 |
| FORECASTLE | 48·0 × 7·5 × ·75 | = | 270 |
| POOP DECKHOUSE. | 76 × 14·5 × ·5 | = | 550 |
| BRIDGE DECKHOUSE | 106·7 × 8·0 × ·5 | = | 427 |
| UPPER BR. " | 106·7 × 9·0 × ·5 | = | 480 |
| TOTAL | | | 45556 |

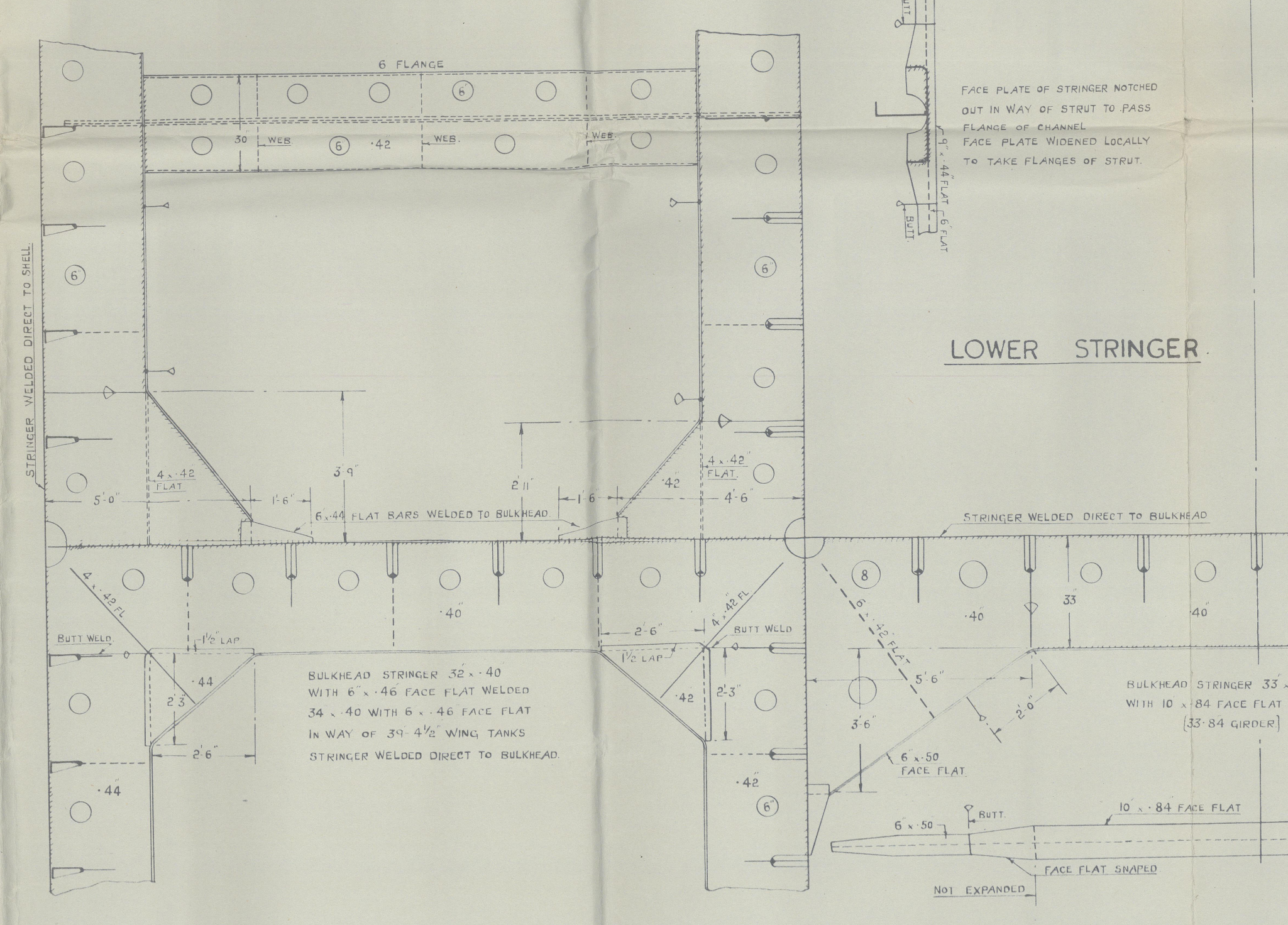
EQUIPMENT:-

| | |
|---|---|
| 2 BOWER ANCHORS | 73½ CWTS. EACH [STOCKLESS] [RULE 3 IN Nº.] |
| 1 STREAM ANCHOR | 22 " [EX. STOCK] |
| 300 FATHOMS | 2 7/16" STUD LINK CHAIN CABLE |
| 120 FATHOMS | 5" [6 × 12] FLEXIBLE S.W.R. [STREAM WIRE] |
| 130 " | 5¼" [6 × 24] " " [TOWLINE] |
| 2 @ 100 FATHOMS | 2¾" [6 × 12] " " [HAWSER] |
| 2 @ 100 FATHOMS. | 2¾" [6 × 12] " " [WARPS] |

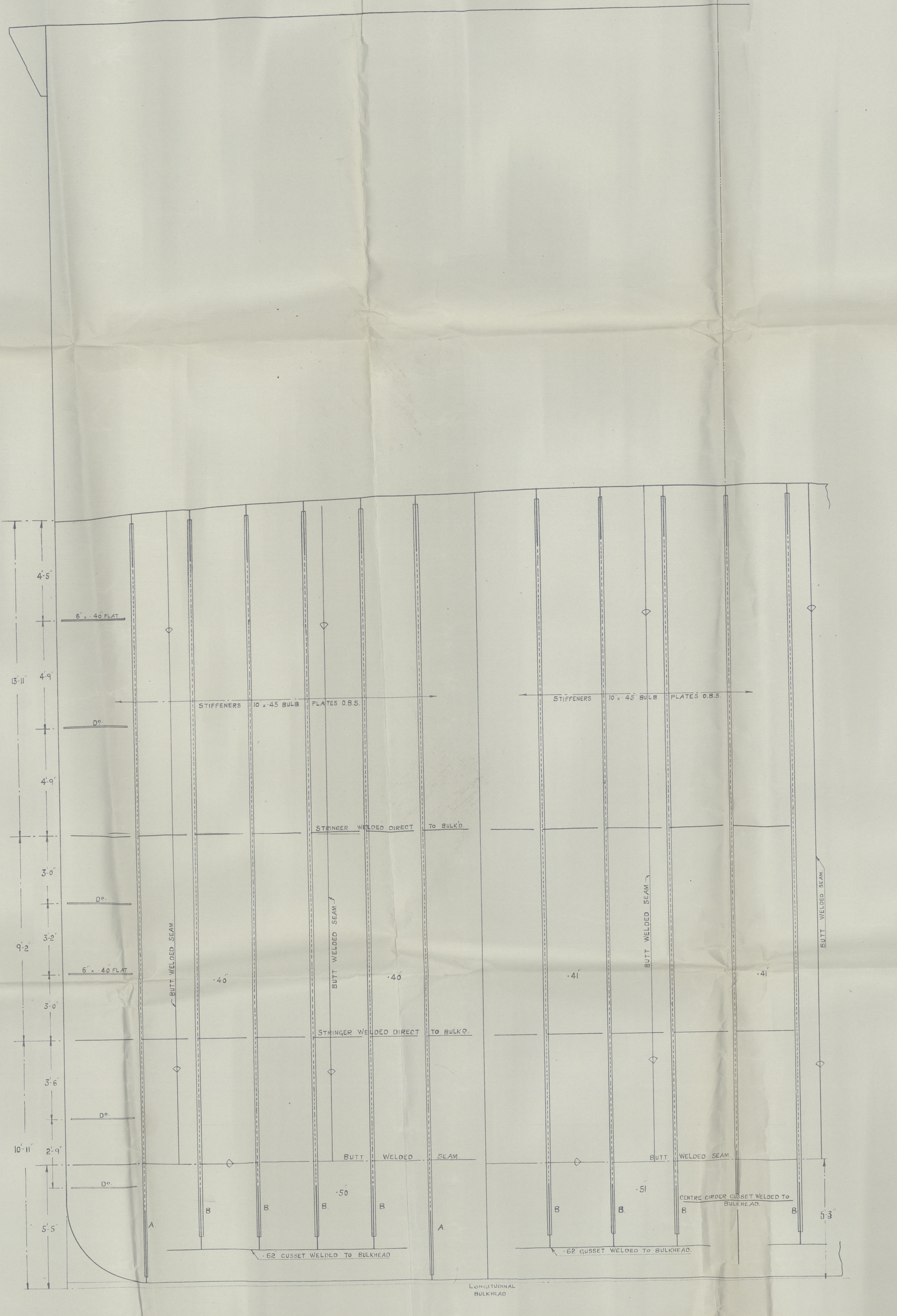

BREADTH 62'-0"
DECK LONGITUDINALS 9" × 3½" × ·40" B.A.
" PLATING ·25", STRINGER 63¾" × ·30" & ·31.
DOUBLE 3½" × 3" × ·44"
SINGLE DECK BARS 3½" × 3" × ·44" 3½" VERTICAL.
DOUBLE 3½" × 3" × ·44".
SINGLE 3½" × 3" × ·44".
REVERSE BARS 3½" × 3½" × ·40"
3½" × 3½" × ·50"
FLIGHT DECK.
20" × ·40"
4" × 3½" × ·44" SINGLE.
24" × ·44"
6" × 3½" × ·46" DOUBLE.
6" × 6" × ·50 LUG.
3" FLANGE.
7/8" RIVETS.
59'-6" ABOVE BASE AT CENTRE LINE
6" CAMBER IN 31'-0".
3½" × 3½" × ·44" DOUBLE.
12" × 3½" × 3½" × ·50/·60 CHANNELS.
TRIPPING BRACKET.
12" × 8" × 65 LBS. JOIST.
36" × ·50" WEB.
6" × 6" × ·50"
9" × 3½" × ·50" B.A.
8'-0"
7'-6"
UPPER DECK STRINGER PLATE 90¾" × ·77" FOR ½ L. TO ·46" AT END
·84" AT ENDS OF BRIDGE ·85" AT FRONT OF POOP
STRINGER ANGLE 7" × 7" × ·70" FOR ½ L. TO 3½" × 3½" × ·36" AT AFT END
DECK WELDED DIRECT TO SHELL FORWARD OF 159 FRAME.
14¾" CAMBER.
14½" IN WAY OF ERECTIONS
8" IN WAY OF WELLS.
SHEERSTRAKE 56" × 1·00" FOR ½ L.
(62½" × ·90" IN WAY OF POOP, BR. & F'CLE)
TO ·50" AT ENDS
1·20" AT ENDS OF BRIDGE AND
FRONT OF POOP.
DECK TRANSVERSE 29" × ·42 WEB
FACE FLAT 6" × ·55 WELDED (29·55 GIRDER)
VERTICAL LUGS 3" × ·42 FLAT
WELDED DIRECT TO DECK.
6" × ·50" FLAT BAR.
DECK LONGITUDINALS 9" × 3½" × ·43" B.A. SPACED 33" APART.
CENTRE GIRDER 60" × ·40" SLOTTED IN WAY OF TRANSVERSES.
FACE FLAT 7½" × ·50" (60·5" GIRDER)
STIFFENERS 5" × 3½" × ·40" OR 5" × ·40" FLATS
SPACED 3'-6" APART.
DECK LONGITUDINALS 9" × 3½" × ·43 B.A. SPACED 30" APART.
UPPER DECK.
STRAKE BELOW SHEERSTRAKE 83¾" × ·76" FOR ½ L. TO ·50 AT ENDS.
VERTICAL STIFFENERS ON LONGL. BULKHEAD
10" × ·50 BULB PLATES O.B.S. SPACED 31½" APART
INCREASED IN FOR'D TANKS FOR SHEER
I.E. NOS. 7, 8 & 9 TANKS 12" × ·425 B.PL. - O.B.S.
SIDE FRAMES 10" × 3½" × ·44 B.A.
SPACED 31½" APART
INCREASED IN FOR'D TANKS FOR SHEER.
ALL SHELL BUTTS WELDED.
STRINGER 26" × ·40" WITH 6" × ·42 FACE FLAT WELDED
WELDED DIRECT TO LONGL. BHD.
STRINGER 26" × ·42 WITH 6" × ·44 FACE FLAT WELDED
WELDED CONNECTION TO SHELL.
BRACKETS ·40 ON ALT. FRAMES
INTERMEDIATE LUGS (SEE PLAN)
30" × ·42 PLATE FLANGED 6"
15" × 4" × 4" × ·50/·62 CH.
CONNECTING FLANGE CUT DOWN TO 1½ & WELDED TO TOP PLATE
LONGITUDINAL O.T. BULKHEAD ·42 VERTICAL PLATING IN ONE LENGTH
SECTION THROUGH TIES.
O.T. BULK'D S B S T S B S T S B S O.T. BULK'D
CENTRE GIRDER
31½" FRAME SPACING. 31'-6"
T = TRANSVERSE.
B = BRACKET
S. = STIFFENER.
FACE PLATE OF BOTTOM TRANS.
WELDED BUTT NOT EXPANDED.
SIDE SHELL ·64 FOR ½ L. TO ·50" AT ENDS
+ ·03 IN TANKS FOR'D ⅗ L.
AT 31½" FR. SPACING
·67 - ·47 CLEAR OF OIL TANKS AFT.
STRINGER 30" × ·42 WITH 6" × ·44 FACE FLAT WELDED DIRECT TO LONGL. BULKHEAD.
STRINGER 30" × ·44 WITH 6" × ·46 FACE FLAT WELDED WELDED DIRECT TO SHELL.
BRACKETS ETC. AS ABOVE.
ENDS OF TOP PLATE VEED AND WELDED
END OF CHANNEL WELDED DIRECT.
2" LAP WELD
DETAIL OF TRIPPING BRACKET FITTED MIDWAY
BETWEEN TRANSVERSES AND TRANSVERSE & BULKHEAD.
6 × ·42 FLAT VERT. STIFFRS. BETWEEN BKTS. & TRANSVERSES OR BHDS.
BOTTOM TRANSVERSE 37" × ·44" WEB.
FACE FLAT 8" × ·66 WELDED (37·6 GIRDER)
VERTICAL LUGS 6" × ·42 FLAT.
TRANSVERSE WELDED DIRECT TO SHELL.
BOTTOM TRANSVERSE 40" × ·44".
FACE FLAT 12" × ·88" WELDED (40·88" GIRDER)
VERTICAL LUGS 6" × ·44 FLAT WELDED.
TRANSVERSE WELDED DIRECT TO SHELL
PARALLEL TO RISE OF FLOOR LINE.
PARALLEL TO BASE LINE
FACE FLAT SLOTTED & SHAPED
CENTRE GIRDER SLOTTED HALF-DEPTH.
TRANSVERSE SLOTTED HALF DEPTH
WELDED UP BACKS OF LONGL'S
CENTRE GIRDER 40" × ·42 (INTERCOS.)
WELDED DIRECT TO KEEL.
FACE FLAT 10" × ·54".
WELDED OR STRAPPED AT TRANSVERSES.
BILGE KEEL 12" × ·45 BULB PLATE WELDED DIRECT TO SHELL.
LONGL. BHD. WELDED DIRECT
WELDING DOUBLED UP IN THESE TWO BAYS
CENTRE GIRDER WELDED DIRECT.
NOTCH 7½" CLEAR DEPTH.
KEEL 87" × ·86" FOR ⅗ L. TO ·78" AT ENDS.
BRACKET WELDED DIRECT TO SHELL.
"D" STRAKE ·64 FOR ½ L. TO ·50" AT ENDS.
"C" STRAKE ·64" FOR ½ L. TO ·50" AT ENDS
·70 FOR'D OF ½ L. TO COLLISION BULKHEAD.
DOUBLING PLATE P. & S. IN WAY OF TRANS.
BULKHEAD ABOUT 5'-0" LONG × ·60" THICK.
"B." STRAKE ·66 FOR ½ L. TO ·53 AT ENDS
·74 FOR'D OF ½ L. TO COLLISION BULKHEAD.
GARBOARD STRAKE ·67 FOR ½ L.
TO ·53 AT ENDS ·74 FORWARD
OF ½ L. TO COLLISION BULKHEAD.
DOUBLING PLATE P. & S. IN WAY OF
TRANS. BHD. ABOUT 5'-0" × ·60".
BOTTOM LONGITUDINALS 17" × 4" × 4" × ·52/·68 CHANS. SPACED AS SHEWN
ALL LONGITUDINALS LOOK OUTBOARD IN WING TANKS AND ALL LOOK TO
STARBOARD IN CENTRE TANK.


6" FLANGE.
WEB.
STRINGER WELDED DIRECT TO SHELL.
4" × ·42 FLAT.
6" × ·44 FLAT.
STRINGER WELDED DIRECT TO BULKHEAD.
BULKHEAD STRINGER 32" × ·40
WITH 6" × ·42 FACE FLAT WELDED
34" × ·40 WITH 6" × ·42 FACE FLAT
IN WAY OF 39'-4½" WING TANKS
STRINGER WELDED DIRECT TO BULKHEAD.
BULKHEAD STRINGER 33" × ·40
WITH 9" × ·64 FACE FLAT WELDED
(33·64 GIRDER)
6" × ·44 FACE FLAT BAR
6" × ·44" FLAT.

UPPER STRINGER.

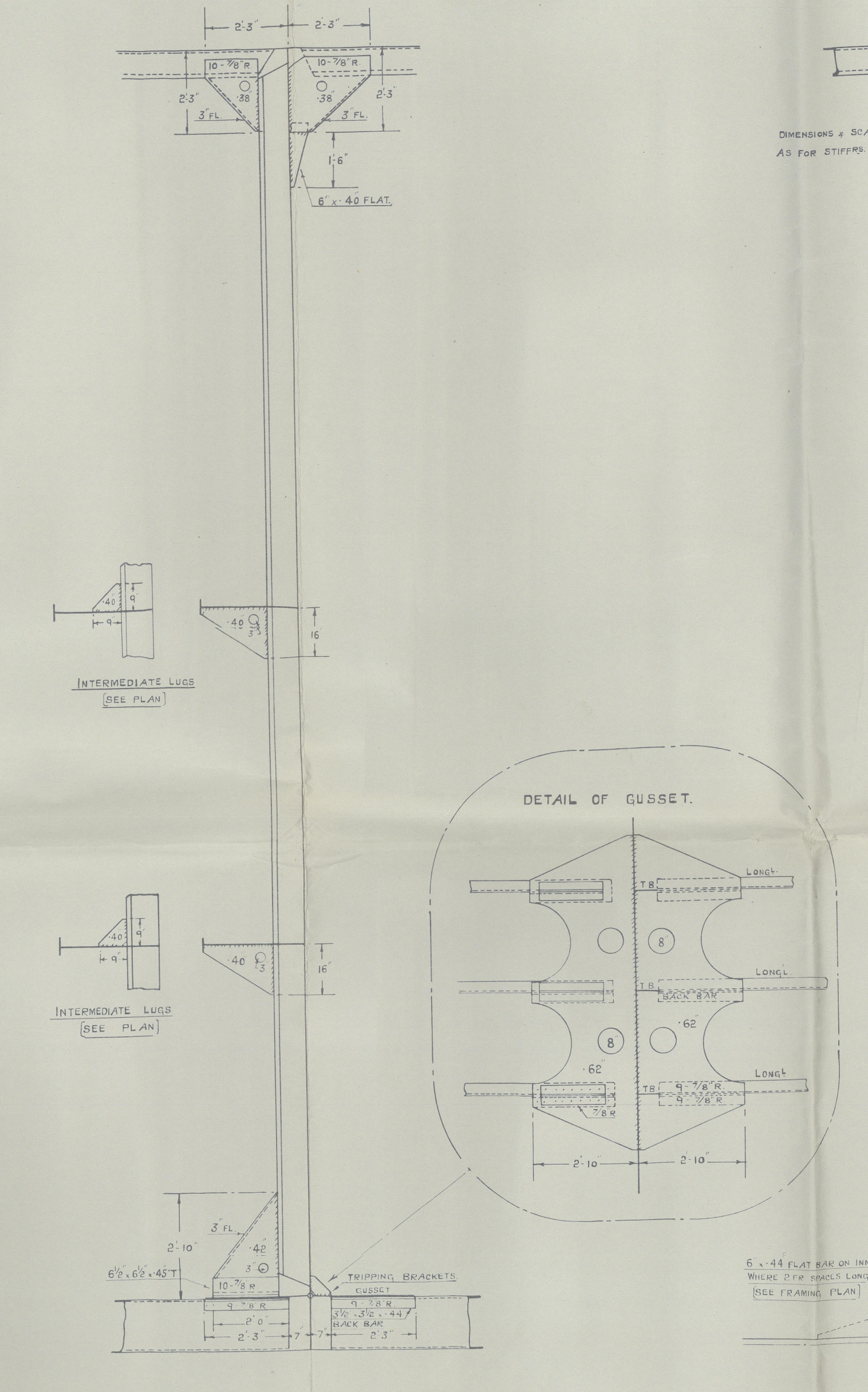

6 FLANGE
WEB.
STRINGER WELDED DIRECT TO SHELL.
FACE PLATE OF STRINGER NOTCHED OUT IN WAY OF STRUT TO PASS FLANGE OF CHANNEL
FACE PLATE WIDENED LOCALLY TO TAKE FLANGES OF STRUT.
6" × ·44 FLAT BARS WELDED TO BULKHEAD
STRINGER WELDED DIRECT TO BULKHEAD
BULKHEAD STRINGER 32" × ·40
WITH 6" × ·46 FACE FLAT WELDED
34" × ·40 WITH 6" × ·46 FACE FLAT
IN WAY OF 39'-4½" WING TANKS
STRINGER WELDED DIRECT TO BULKHEAD.
BULKHEAD STRINGER 33" × ·40
WITH 10" × ·84 FACE FLAT WELDED
(33·84 GIRDER)
6" × ·50 FACE FLAT
10" × ·84 FACE FLAT
FACE FLAT SHAPED
NOT EXPANDED

LOWER STRINGER.

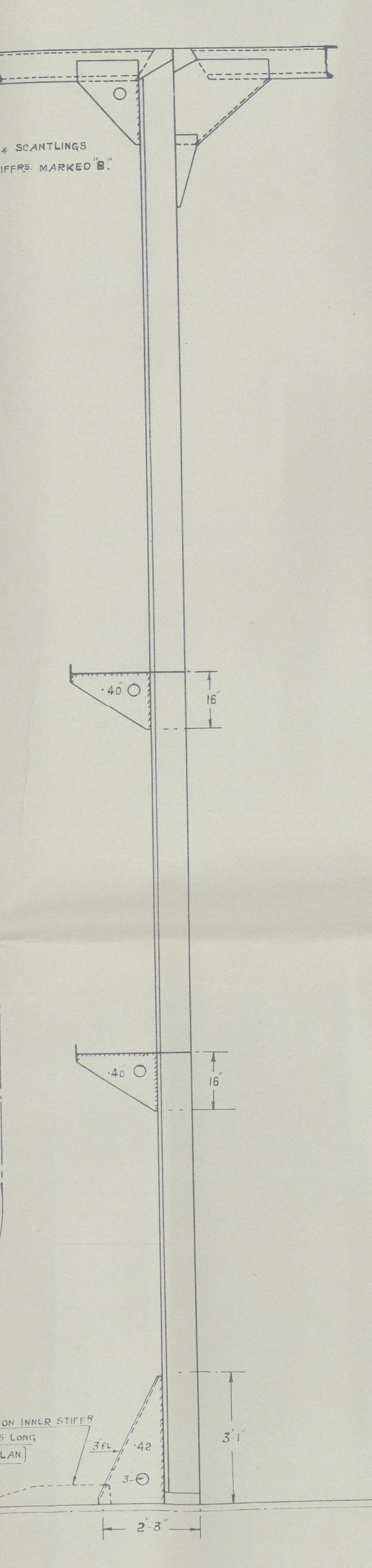

6" × ·40" FLAT
Dº.
STIFFENERS 10" × ·45 BULB PLATES O.B.S.
STRINGER WELDED DIRECT TO BULK'D
BUTT WELDED SEAM.
·40"
·41"
·50
·51
A
B
CENTRE GIRDER GUSSET WELDED TO BULKHEAD.
·62 GUSSET WELDED TO BULKHEAD
LONGITUDINAL BULKHEAD

O.T. TRANSVERSE BULKHEAD.

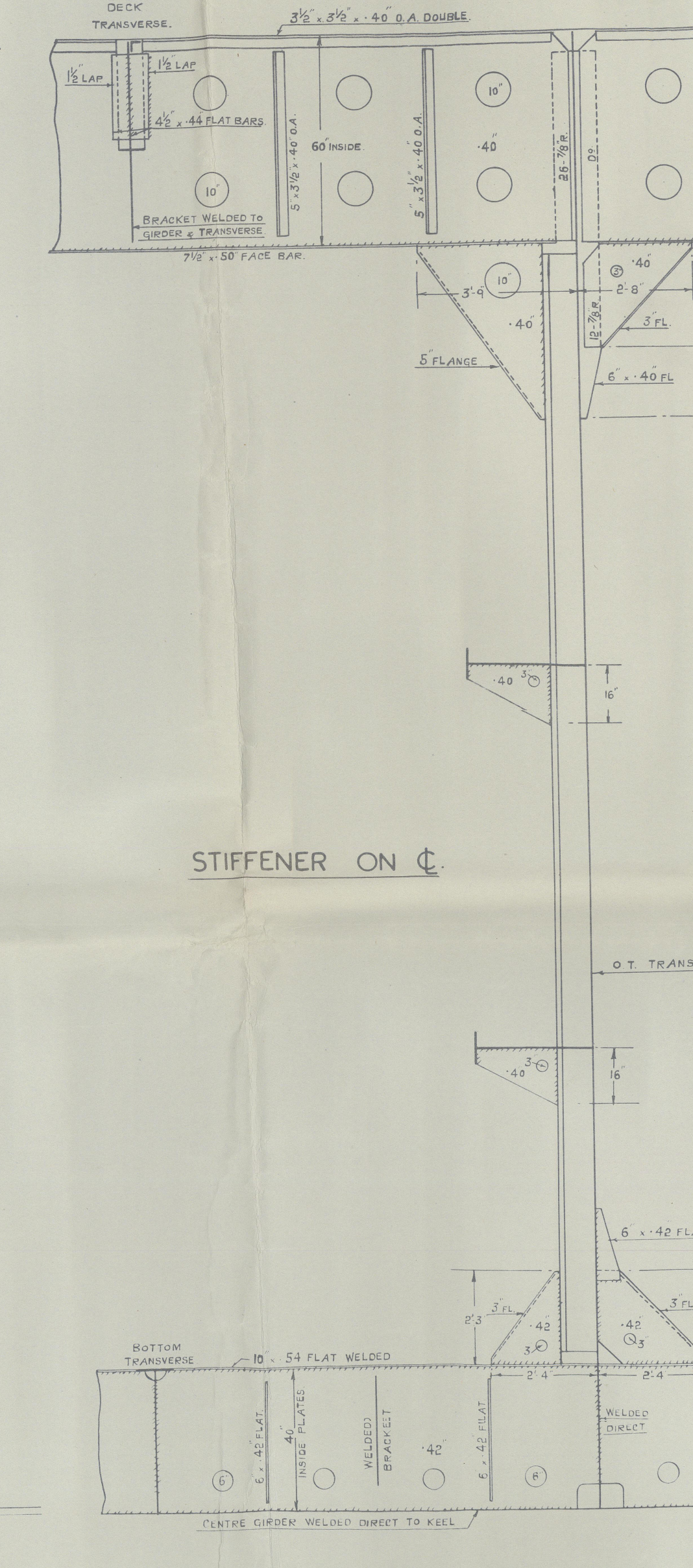
ALL WELDED.



STIFFENERS IN CENTRE TANK & WHERE MARKED 'B' IN WING TANKS.


DIMENSIONS & SCANTLINGS AS FOR STIFFRS. MARKED "B".
6" × ·44 FLAT BAR ON INNER STIFFR. WHERE 2 FR. SPACES LONG (SEE FRAMING PLAN)

STIFFENER IN WING TANKS. MARKED 'A'



ELEVATION.

SWAN, HUNTER, & WIGHAM RICHARDSON LTD. SHIPBUILDERS & ENGINEERS DATE 30.11.43 188 WALLSEND SHIPYARD WALLSEND-ON-TYNE

Issue Nº. 191
16·12·43

SWAN, HUNTER & WIGHAM RICHARDSON. LTD. BUILDERS OF SHIPS, ENGINES & FLOATING DOCKS. WALLSEND - ON - TYNE. Nº 1677.

005349-00356-0219